

What is claimed is:

1. A water conserving and cleaning apparatus comprising:

means for holding said apparatus,

means for removing particulates from said apparatus,

5 means for controlling water flow in said apparatus, and

means for creating a Venturi effect in said apparatus,

thereby providing a water saving feature and a highly effective  
cleaning feature.

- 10 2. A water conserving and cleaning apparatus comprising:

an essentially straight handle of several feet in length,

a hand grip formed around said handle in the vicinity of a  
distal end of said handle,

15 a straight fixture, said fixture being removably screwed  
into said hand grip,

a water flow control lever operably secured to said  
fixture, and wherein a water hose is typically screwed into  
said distal end of said handle, and

20 a jet manifold fixedly secured to a proximate end of said  
handle in an inverted "T" configuration, in approximately a

center of said manifold.

3. A water conserving and cleaning apparatus according to claim 2, wherein said jet manifold further comprises a horizontal cylinder fixedly secured to said handle, a forward wing integrally welded onto said horizontal cylinder, a rear wing integrally welded onto said cylinder, a plurality of spray nozzles secured into said cylinder at equally spaced intervals, and a plurality of wheels movably secured at left and right ends of said rear wing.

4. A water conserving and cleaning apparatus according to claim 3, wherein said rear wing, integral to said jet manifold, further comprises a two level cantilevered porch with specifically designed angles and heights to function as a fluid flow director, directing air flow under said water conserving apparatus to provide optimum air flow and a Venturi effect under said water conserving apparatus.

5. A water conserving and cleaning apparatus according to

claim 3, wherein said two level cantilevered porch of said rear wing further comprises an upper horizontal porch, wherein said upper porch is an air flow director for air flow flowing underneath said water conserving apparatus, wherein said upper porch is preferably of a length of 1.250 inches, and wherein an angle step is weldably joined to said upper porch and said angle step is also weldably joined to a lower porch portion of said cantilevered porch, and wherein said angle step makes an angle  $\partial_2$  with the horizontal that is preferably 47 degrees.

6. A water conserving and cleaning apparatus according to claim 3, wherein said forward wing functions as a fluid flow director by directing an air and water jet stream onto a surface to be cleaned, and wherein said forward wing protects a plurality of spray nozzles, said nozzles being secured underneath said forward wing, and wherein said jet stream requires a minimum of water because it is combined with an air stream to provide maximum pressure at a specific target angle to said surface to be cleaned, whereby said jet

stream conserves water.

7. A water conserving and cleaning apparatus according to claim 6, wherein said minimum of water is two to three gallons per minute for optimum cleaning of most surfaces.

8. A water conserving and cleaning apparatus according to claim 3, wherein said water hose provides preferred water pressures from 40-80 pounds per square inch (psi).

9. A water conserving and cleaning apparatus comprising:  
an essentially straight handle of several feet in length,  
a hand grip formed around said handle in the vicinity of a distal end of said handle,

a straight fixture, said fixture being removably screwed into said hand grip,

a water flow control lever operably secured to said fixture, and wherein a water hose is typically screwed into said distal end of said handle,

a jet manifold fixedly secured to a proximate end of said

handle in an inverted "T" configuration, in approximately a center of said manifold, wherein said jet manifold further comprises a horizontal cylinder fixedly secured to said handle, a forward wing integrally welded onto said horizontal cylinder, a rear wing integrally welded onto said cylinder, a plurality of spray nozzles secured into said cylinder at equally spaced intervals, and a plurality of wheels movably secured at left and right ends of said rear wing,

wherein said rear wing, integral to said jet manifold, further comprises a two level cantilevered porch with specifically designed angles and heights to function as a fluid flow director, directing air flow under said water conserving apparatus to provide optimum air flow and a Venturi effect under said water conserving apparatus,

wherein said two level cantilevered porch of said rear wing further comprises an upper horizontal porch, wherein said upper porch is an air flow director for air flow flowing underneath said water conserving apparatus, wherein said upper porch is preferably of a length of 1.250 inches, and wherein an angle step is weldably joined to said upper porch

and said angle step is also weldably joined to a lower porch portion of said cantilevered porch, and wherein said angle step makes an angle  $\partial_2$  with the horizontal that is preferably 47 degrees.

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10. A water conserving and cleaning apparatus according to claim 3, wherein said handle is fixedly secured to said horizontal cylinder at a preferred angle  $\partial_1$  of 45 to 50 degrees.

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11. A water conserving and cleaning apparatus according to claim 10, wherein said handle is fixedly secured to said horizontal cylinder at a most preferred angle  $\partial_1$  of 47 degrees, whereby said angle  $\partial_1$  provides maximum comfort to the widest group of adults of virtually any age and height.

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12. A water conserving and cleaning apparatus according to claim 3, wherein said spray nozzles make an angle  $\partial_3$  to the horizontal, wherein said angle  $\partial_3$  is preferably 30 degrees.

13. A water conserving and cleaning apparatus according to claim 3, wherein said forward wing makes an angle  $\partial_4$  to the horizontal of preferably 30 degrees, whereby said forward wing is parallel to said spray nozzles.

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14. A water conserving and cleaning apparatus according to claim 3, wherein a length  $L_2$  is the dimension underneath said forward wing from a forward edge of said forward wing to a juncture with said cylinder, wherein said length  $L_2$  is preferably 1.0 inches, whereby said length  $L_2$  provides the necessary length to function as an effective fluid flow director for said air and water stream.

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15. A water conserving and cleaning apparatus according to claim 3, wherein said horizontal cylinder is a distance "d" above said surface to be cleaned, wherein said distance is in a preferred range of 1.75 to 1.85 inches.

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16. A water conserving and cleaning apparatus according to

claim 3, wherein said horizontal cylinder is a distance “d”  
above said surface to be cleaned, wherein said distance is  
most preferably 1.8 inches.

5           17. A water conserving and cleaning apparatus according to  
claim 3, wherein said apparatus has a plurality of spray  
nozzles in an embodiment comprising seven nozzles.

10           18. A water conserving and cleaning apparatus according to  
claim 3, wherein said apparatus has a plurality of spray  
nozzles in an embodiment comprising four nozzles.

15           19. A water conserving and cleaning apparatus according to  
claim 3, wherein said apparatus has a plurality of spray  
nozzles in an embodiment comprising five nozzles.

20. A water conserving and cleaning apparatus according to  
claim 3, wherein said apparatus has a plurality of spray  
nozzles in an embodiment comprising six nozzles.



21. A water conserving and cleaning apparatus according to claim 3, wherein said apparatus has a plurality of spray nozzles in an embodiment comprising nine nozzles.

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22. A water conserving and cleaning apparatus according to claim 2, wherein said fixture further comprises a cone-shaped water filter, wherein said filter filters out impurities and particulates, and wherein said filter further comprises an essentially circular base and a cone, wherein said base is formed into an annular ring into which is secured said cone, and wherein said cone is manufactured from metal into a porous screen with a grid size which is approximately twice as small as a nozzle orifice.

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23. A water conserving and cleaning apparatus according to claim 22, wherein said cone provides a slope down which any particulates slide until contacting said annular ring, whereby, periodically, the user can turn off the water, twist open said hand grip, and shake any particulates off said annular ring,

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thereby making it virtually impossible for said water conserving apparatus to become clogged.

24. A water conserving and cleaning apparatus according to claim 1, wherein said means for holding said apparatus comprises an essentially straight handle of several feet in length, and a hand grip formed around said handle in the vicinity of a distal end of said handle,

wherein said means for removing particulates from said apparatus comprises

a straight fixture, said fixture being removably screwed into said hand grip, and

a water filter, wherein said filter filters out impurities and particulates, and wherein said filter further comprises an essentially circular base and a cone, wherein said base is formed into an annular ring into which is secured said cone, and wherein said cone is manufactured from metal into a porous screen with a grid size which is approximately twice as small as a nozzle orifice,

wherein said cone provides a slope down which any

particulates slide until contacting said annular ring, whereby,  
periodically, the user can turn off the water, twist open said  
hand grip, and shake any particulates off said annular ring,  
thereby making is virtually impossible for said water  
conserving apparatus to become clogged,

wherein said means for controlling water flow in said  
apparatus comprises a water flow control lever operably  
secured to said fixture, and

wherein said means for creating a Venturi effect in said  
apparatus comprises a jet manifold fixedly secured to a  
proximate end of said handle in an inverted "T" configuration,  
in approximately a center of said manifold, wherein said jet  
manifold further comprises

a horizontal cylinder fixedly secured to said handle,  
a forward wing integrally welded onto said horizontal  
cylinder,  
a rear wing integrally welded onto said cylinder,  
a plurality of spray nozzles secured into said cylinder at  
equally spaced intervals, and  
a plurality of wheels movably secured at left and right

ends of said rear wing, wherein said rear wing, integral to said jet manifold, further comprises

a two level cantilevered porch with specifically designed angles and heights to function as a fluid flow director, directing air flow under said water conserving apparatus to provide optimum air flow and a Venturi effect under said water conserving apparatus, thereby providing a water saving feature and highly effective cleaning feature.

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